

IN THE SPECIFICATION:

Please amend Page 1, Lines 1-7, as follows:

a¹
The invention relates to an assembly comprising a display device provided with a pattern of pixels driven by a control circuit and an illumination system for illuminating the display device, in which the illumination system comprises a light-emitting panel and at least one light source, and in which the light source is associated with the light-emitting panel. The invention further relates to a display device for use in the assembly. The invention also relates to an illumination system for use in the assembly.

Please amend Page 2, Lines 23-25, as follows:

a²
It is an object of the invention to completely or partly overcome the above mentioned drawback. The invention more particularly aims at providing an assembly of the type mentioned in the opening paragraph, wherein the contrast of the display device is improved.

Please amend Page 6, Lines 18-32, as follows:

a³
The illumination system which is very diagrammatically shown in Fig. 1 comprises a plurality of light-emitting diodes (LEDs) 16, 16', 16'', ... having different light-emission wavelengths. The LEDs 16, 16', 16'', ... are driven by the control circuit 8 via amplifiers 25, 25', 25''. In accordance with the measure of the invention, the control circuit 8 drives the display device and the luminous fluxes of the LEDs in dependence upon an image to be displayed by the display device. In the example shown in Fig. 1, reference numeral 16 corresponds to a plurality of red LEDs, reference numeral 16' corresponds to a plurality of green LEDs, and reference numeral 16'' corresponds to a plurality of blue LEDs. Preferably, the LEDs are arranged in a (linear) array of

3
amd.

alternately red, green and blue LEDs. In the example shown in Fig. 1, the control circuit 8 drives the LEDs 16, 16', 16'' on a color-to-color basis. In an alternative embodiment, the control circuit drives each one of the LEDs individually. An advantage of individually driving each one of the LEDs is that, for example in the case of failure of one of the LEDs, appropriate measures can be taken in the illumination system to compensate for the effect of this failure, for example by increasing the luminous fluxes of nearby LEDs of a corresponding color.

Please amend Page 12, Lines 1-15, as follows:

a4

Fig. 3B diagrammatically shows a block diagram of the driver interface DI between the display device and the illumination system (detail of Fig. 3A). The driver interface DI transports a number of signals, for example a synchronization signal (a) and information about the desired light levels of the various colors, for example of the red (b), green (c) and blue (d) light. The LCD driver 108 may additionally, or instead of the information about the desired light levels of the various colors, send the desired color point (e) to the LED driver 108' via the driver interface DI. Also the LED driver 108' can send a signal (f) to the LCD driver 108 via the driver interface DI, for example information about the maximally permissible value of the luminous fluxes through the LEDs. This may be important in the situation wherein a "punch" or "boost" of a certain color is brought about on the display device 134 by the LCD driver 108 for a certain period of time. The LED driver 108' is capable of feeding back information as to which luminous flux is still permissible for the relevant LED or LEDs, thereby precluding that the temperature of the relevant LED or LEDs becomes too high. In the example shown in Fig. 3B, both the LCD driver 108 and the LED driver 108' also comprise a controller 107, 107', respectively, for processing the signals.

Please amend the Abstract on Page 15 to read as follows:

25 The system comprises a display device with a pattern of pixels (3) controlled by a control circuit (8) and a backlight system for illuminating the display device, which backlight system comprises a light-emitting panel and a light source (16, 16', 16'', ...) associated with the light-emitting panel. The light source comprises a plurality of light-emitting diodes (LEDs) of at least two different colors. The control circuit (8) also controls the luminous flux of the LEDs. Preferably, the intensity of the light emitted by the LEDs (16, 16', 16'', ...) varies with the light level of the image to be displayed by the display device. Preferably, the intensity of the light emitted by the backlight system can be controlled on a frame-to-frame basis and, preferably, also for each color. Preferably, the LEDs comprise a plurality of red, green, blue (and amber) LEDs, each, preferably, having a luminous flux of at least five lumens. The color point of an image to be displayed on the display screen of the display device is set by the backlight system, enabling an optimum contrast to be obtained for the image to be displayed by the display device.
